

WHAT IS CLAIMED IS:

1. A backlight device, comprising:
a light source, and
5 a light guide plate for introducing light components from the light source from an incident surface provided on an end surface to emit from a surface thereof,
wherein the surface of the light guide plate has a plurality of wedge-shape grooves in stripes in a plan view
10 and a light diffusion surface having micro-protrusions formed between adjacent wedge-shaped grooves.
2. A backlight device according to Claim 1, wherein the extended direction of the wedge-shaped grooves formed in the
15 surface of the light guide plate is parallel to the incident surface of the light guide plate.
3. A backlight device according to Claim 1, wherein the extended direction of the micro-protrusions formed in the
20 surface of the light guide plate is parallel to the incident surface of the light guide plate or is perpendicular to the incident surface of the light guide plate.
4. A backlight device according to Claim 1, wherein a
25 depth D_b of the wedge-shaped grooves formed in the surface of the light guide plate and/or a distance P_b between adjacent wedge-shaped grooves varies in accordance with the distance from the light source or the brightness distribution of the

in-plane direction of the light guide plate.

5. A backlight device according to Claim 4, wherein the depth D_b of the wedge-shaped grooves far from the light source is deeper than that of the wedge-shaped grooves close to the light source.

6. A backlight device according to Claim 4, wherein the distance P_b between adjacent wedge-shaped grooves far from the light source is shorter than that between adjacent wedge-shaped grooves close to the light source.

7. A backlight device according to Claim 1, wherein a diffusive reflector having micro-irregularities having light reflectivity formed on a base surface is formed such that the micro-irregularities-formed surface is opposite to another surface of the light guide plate.

8. A backlight device according to Claim 1, wherein a light directivity adjusting sheet having a plurality of pyramid-shaped bodies formed on a base body is formed on the surface of the light guide plate such that the tips of the pyramid-shaped bodies are directed to the opposite direction to the light guide plate, and the light directivity adjusting sheet controls the directivities of the transmitted light components in at least two different directions among the light components emitted from the surface of the light guide plate and transmitted through the light directivity adjusting

sheet.

9. A backlight device according to Claim 8, wherein
micro-irregularities having light diffusivity are formed on
5 the surface of the light directivity adjusting sheet facing
the light guide plate.

10. A backlight device according to Claim 1, wherein
the thickness of the light guide plate far from the light
10 source is thinner than that of the light guide plate close to
the light source.

11. A backlight device according to Claim 1, wherein
the light source comprises a middle light guide body arranged
15 along the end surface of the light guide plate and a point
light source arranged in the end surface of the longitudinal
direction of the middle light guide body.

12. A liquid crystal display device, comprising:
20 a backlight device according to Claim 1, and
a liquid crystal display unit illuminated from the back
surface by the backlight device.